

Appl. No. : 09/407,645
Filed : September 28, 1999

AMENDMENTS TO THE SPECIFICATION

In response to the Examiner's request for additional information, please make the following changes to the specification

Please amend the paragraph beginning at page 5, line 3 as follows:

In a similar manner, the remote units 108A – 108N transmit signals over a reverse uplink 114 to the satellite 106. The satellite 106 receives the signals from the reverse uplink 114 and re-transmits them on a reverse downlink 116. Together, the reverse uplink 114 and the reverse downlink 116 are referred to as the reverse link. The hub station 104 monitors one or more channels which comprise the reverse link in order to extract messages from the remote units 108A – 108N. For example, in one embodiment of the system 150, the reverse link carries multiple access channels as described in assignee's co-pending application entitled METHOD AND APPARATUS FOR MULTIPLE ACCESS IN A COMMUNICATION SYSTEM, Application Serial No. ____/____, [Attorney Docket No. TACHYON.018CP2], filed concurrently herewith, Application Serial No. 09/407,635, filed on September 28, 1999, the entirety of which is hereby incorporated by reference.

Please amend the paragraph beginning at page 6, line 5 as follows:

In response to the request message, the content server 100 forwards the requested page or object to the hub station 104 over the Internet 102. The hub station 104 receives the requested page or object and creates a wireless link response. The hub station transmits the wireless link response over a channel of the forward uplink 110 and forward downlink 112. For example, in one embodiment of the system 150, the hub station 104 operates as described in assignee's co-pending ~~abandoned~~ application entitled TRANSMISSION OF TCP/IP DATA OVER A WIRELESS COMMUNICATION CHANNEL, Application Serial No. ____/____ [Attorney Docket No. TACHYON.046A], Application Serial No. 09/407,646, filed on September 28, 1999, which is filed concurrently herewith and the entirety of which is hereby incorporated by reference.

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Please amend the paragraph beginning at page 6, line 15 as follows:

The remote unit 108A receives the wireless link response and forwards a corresponding response message to the user terminal 118A over the local area network 116. In one embodiment of the system 150, the process of retrieving a web page or object is executed as described in assignee's ~~co-pending~~ application entitled DISTRIBUTED SYSTEM AND METHOD FOR PREFETCHING OBJECTS, Application Serial No. 09/123,142 [~~Attorney Docket No. TACHYON-001A2~~], filed August 5, 1998, now U.S. Patent No. 6,282,542, the entirety of which is hereby incorporated by reference. In this way, a bi-directional link between the user terminal 118A and the content servers 100 is established.

Please amend the paragraph beginning at page 16, line 21 as follows:

In this embodiment, it can be seen that the duration of the timeslot for the remote units of Group 32 is twice as long as the timeslot for the remote units of Group 64, and four times as long as the timeslot for the remote units of Group 128. The relationship between the duration of the timeslots among the various groups is typically a function of the assigned data rate. For example, because the data rate of 64 kbps is twice the data rate of 32 kbps, it is expected that the duration of the timeslot of Group 64 will be half the duration of the timeslot of Group 32. This timeslot/frequency structure simplifies the implementation of TDMA and FDMA systems having various operating data rates. Finally, it can also be seen that, in all of the groups, each remote unit does not occupy more than a single timeslot concurrently. The occupation of a single timeslot simplifies the operation of single-channel transceiver systems. Once the portion of the frequency spectrum for each group is determined, the hub station 210 may assign one or more timeslot/frequency to a particular remote unit (within a group) using any standard implemented in the hub station 210. Additional details concerning the transmission of channel assignment information to a plurality of remote units are disclosed in assignee's ~~co-pending~~ application entitled SYSTEM AND METHOD FOR EFFICIENT CHANNEL ASSIGNMENT, Application Serial No. _____ [~~Attorney Docket No. TACHYON-043A~~], filed concurrently herewith, Application Serial No. 09/407,640, filed September 28, 1999, now U.S. Patent No. 6,532,220, the entirety of which is hereby incorporated by reference. The invention is not limited to only such systems, but may be implemented using any timeslot/frequency structure that is compatible with the characteristics of the invention.